

FILEID**RMSSHR

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RRRRRRRR	MM	MM	SSSSSSSS	SSSSSSSS	HH	HH	RRRRRRRR
RRRRRRRR	MM	MM	SSSSSSSS	SSSSSSSS	HH	HH	RRRRRRRR
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RR RR	RR	MMMM	MMMM	SS	SS	HH	RR RR
RR RR	RR	MM MM	MM MM	SS	SS	HH	RR RR
RR RR	RR	MM MM	MM MM	SS	SS	HH	RR RR
RRRRRRRR	MM	MM	SSSSSS	SSSSSS	HHHHHHHHHH	RRRRRRRR	
RRRRRRRR	MM	MM	SSSSSS	SSSSSS	HHHHHHHHHH	RRRRRRRR	
RR RR	RR	MM	MM	SS	SS	HH	RR RR
RR RR	RR	MM	MM	SS	SS	HH	RR RR
RR RR	RR	MM	MM	SS	SS	HH	RR RR
RR RR	RR	MM	MM	SS	SS	HH	RR RR
RR RR	RR	MM	MM	SSSSSSSS	SSSSSSSS	HH	HH RR
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SSSSSSSS	DDDDDDDD	LL
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{ $begin rmsshr,V04-000
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{ rms shared file structure definitions

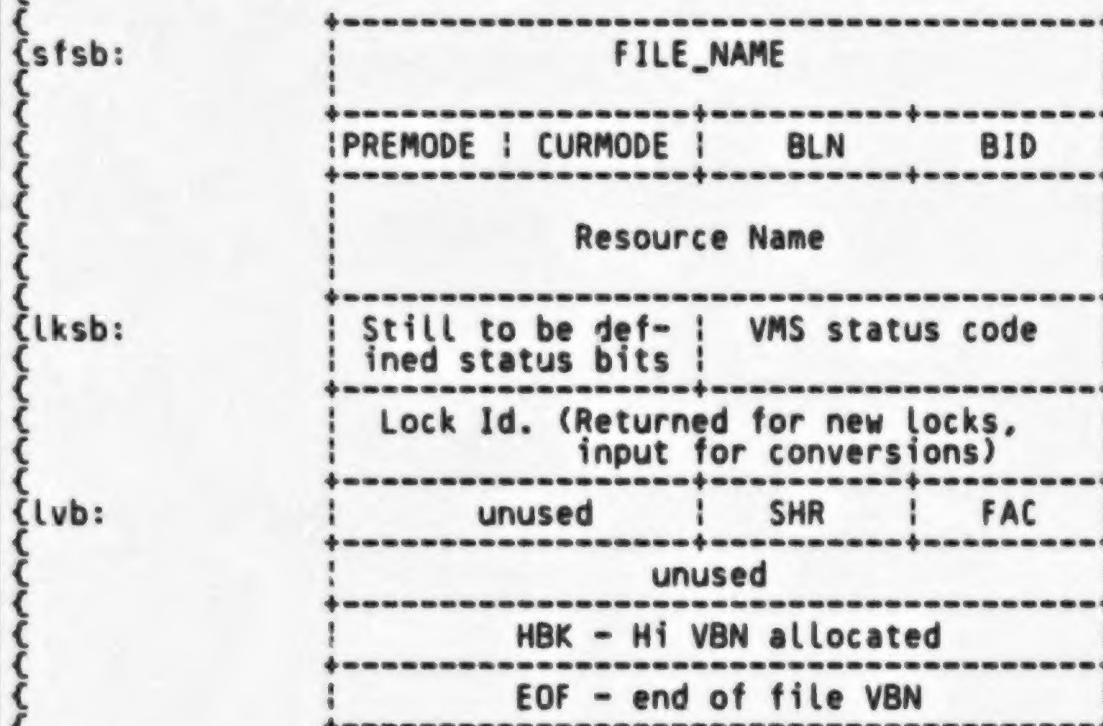
{ Modified By:

V03-009	SHZ0005	Stephen H. Zalewski	05-Aug-1983
Add a one byte flag field to GBSB.			
V03-008	SHZ0004	Stephen H. Zalewski	28-Jun-1983
Change size of RMS facility code in SFSB.			
V03-007	KBT0489	Keith B. Thompson	9-Feb-1983
Add FAB and SHR field to sfsb			
V03-006	KBT0325	Keith B. Thompson	10-Sep-1982
Remove all SO sharing structure definitions			
V03-005	SHZ0003	Stephen H. Zalewski,	12-Aug-1982 14:09
Added further definitions to GBSB.			
V03-004	SHZ0002	Stephen H. Zalewski.	11-Aug-1982 21:10
Changed name of \$GBLB to \$GBSB.			
V03-003	SHZ0001	Stephen H. Zalewski	10-Aug-1982
Add GBLB definitions.			
V03-002	KBT0081	Keith B. Thompson	12-Jul-1982
Add b_curlck, l_ebk and l_hbk to the sfsb. Also fix revision number in jwh000T			
V03-001	JWH0001	Jeffrey W. Horn	24-Mar-1982
Change SIFB to reflect journaling changes to the IFB.			

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SFSB field definitions - shared file synchronization block

The SFSB contains the information necessary to lock a file for RMS synchronization via the VAX/VMS Lock Manager.



module \$SF\$SBDEF;

aggregate SF\$BDEF structure fill prefix SF\$BS;

 FILENAME OVERLAY union fill;
 FILENAME quadword unsigned; /* descriptor of shared file resource name.
 * resource name is NODE, DEVICE, FILE_ID
 * points to RESNAM, below

FILENAME_FIELDS structure fill;

NAME_LEN word unsigned; /* subfield to address descriptor length field

FILL_3 byte dimension 2 fill prefix SF\$BDEF tag \$S;

 /* subfield to address descriptor tag \$S;
 * ADDRESS longword unsigned; /* subfield to address descriptor address field

end FILENAME_FIELDS;

end FILENAME OVERLAY;

BID byte unsigned;

/* block id

constant BID equals 16 prefix SF\$B tag \$C;

/* sf\$B code

BLN byte unsigned;

/* block length in longwords

CURMODE byte unsigned;

/* Mode of the current lock

PREMODE byte unsigned;

/* Mode of the previous lock

RESNAM OVERLAY union fill;

RESNAM character length 32; /* 32 bytes for name of shared resource

RESNAM_FIELDS structure fill;

FAC_CODE longword unsigned; /* RMS facility code (RMSS)

FID_NUM word unsigned; /* file id word one

```
    FID_SEQ word unsigned;           /* file id word two
    FID_RVN word unsigned;          /* file id word three
    constant FIX_LEN equals 10     prefix SFSB tag $C; /* 10 bytes of fixed size data
    DEV_NAM character length 22;   /* 22 bytes remain to hold device id (node$device_name)
end RESNAM FIELDS;
end RESNAM OVERLAY;
LKSBSB OVERLAY union fill;
    LKSBSB longword unsigned;      /* lock status block
    LKSBSB FIELDS structure fill;
        STATUS word unsigned;     /* VMS status code
        S_BITS word unsigned;     /* various status bits
    end LKSBSB FIELDS;
end LKSBSB OVERLAY;
LOCK_ID longword unsigned;       /* second longword of LKSBSB is the lock id
LVB_OVERLAY union fill;
    LVB longword unsigned dimension 4; /* lock value block
    constant BLN equals . prefix SFSB$ tag K; /* length of sfsb
    constant BLN equals . prefix SFSB$ tag C; /* length of sfsb
/*
/* keep the next two fields in same order as they are in FAB
LVB_FIELDS structure fill;
    FAC byte unsigned;           /* fac bits from FAB
    SHR byte unsigned;           /* sharing bits (from FAB SHR field)
    FILL_1 word fill prefix SFSBDEF tag $$; /* spare
    FILL_2 longword fill prefix SFSBDEF tag $$; /* spare
    HBK longword unsigned;       /* high block
    EBK longword unsigned;       /* end of file
end LVB_FIELDS;
end LVB_OVERLAY;
end SFSBDEF;
end_module $SFSBDEF;
module $GBSBDEF;
/*
```

```

/*
/* GBSB field definitions - global buffer synchronization block
/*
/* The GBSB contains the information necessary to determine if a
/* global section is already open for a file on a given node, and
/* is used for synchronizing access to the global section.
/*
/*
/*gbsb:      +-----+
/*             |       FILE_NAME
/*             +-----+
/*             |-----+-----+
/*             | FLAGS | CURMODE |   BLN  |   BID
/*             +-----+-----+
/*             |       Resource Name
/*             +-----+
/*lksb:      +-----+
/*             | Still to be def- | VMS status code
/*             | ined status bits |
/*             +-----+
/*             | Lock Id. (Returned for new locks,
/*             |           input for conversions)
/*             +-----+
/*lkvb:      +-----+
/*             |   GBC      |   GBREF
/*             +-----+
/*             |   GBS - size of GS in bytes
/*             +-----+
/*             |   spare
/*             +-----+
/*             |   spare
/*             +-----+
/*             :
/*             :
/* aggregate GBSBDEF structure fill prefix GBSBS;
/* FILENAME OVERLAY union fill;
/* FILENAME quadword unsigned;
/*             /* descriptor of shared file resource name.
/*             /* resource name is NODE, DEVICE, FILE_ID
/*             /* points to RESNAM, below
/* FILENAME_FIELDS structure fill;
/* NAME_LEN word unsigned;
/* FILL_3 byte dimension 2 fill prefix GBSBDEF tag $S;
/* ADDRESS longword unsigned;
/*             /* subfield to address descriptor length field
/*             /* subfield to address descriptor address field
/* end FILENAME_FIELDS;
/* end FILENAME OVERLAY;
/* BID byte unsigned;
/* constant BID equals 9 prefix GBSB tag $C;
/* BLN byte unsigned;
/* CURMODE byte unsigned;
/* FLAGS OVERLAY union fill;
/* FLAGS byte unsigned;
/* FLAGS_BITS structure fill;
/*     NOTACCESSED bitfield mask;
/* end FLAGS BITS;
/* end FLAGS_OVERLAY;
/*             /* block id
/*             /* gbsb code
/*             /* block length in longwords
/*             /* Mode of the current lock
/*             /* spare
/*             /* Process has already decremented access count for GBS.

```

```
RESNAM character length 32;  
LKSB_OVERLAY union fill;  
  LKSB longword unsigned;  
  LKSB FIELDS structure fill;  
    STATUS word unsigned;  
    S_BITS word unsigned;  
  end LRSB FIELDS;  
end LKSB_OVERLAY;  
LOCK_ID longword unsigned;  
GBC word unsigned;  
GBREF word unsigned;  
GS_SIZE longword unsigned;  
FIELD_1 longword fill prefix GBSBDEF tag $$;  
FIELD_2 longword fill prefix GBSBDEF tag $$;  
constant BLN equals . prefix GBSBS tag K;  
constant BLN equals . prefix GBSBS tag C;  
end GBSBDEF;  
  
end_module SGBSBDEF;
```

```
/* 32 bytes for name of shared resource  
/* lock status block  
/* VMS status code  
/* various status bits  
  
/* second longword of LKSB is the lock id  
/* Number of global buffers in section.  
/* Number of accessors to global section.  
/* Size of global section in bytes.  
/* spare  
/* spare  
/* length of gbsb  
/* length of gbsb
```

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0313 AH-BT13A-SE
VAX/VMS V4.0

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